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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/681,963	06/29/2001	Patrick McGill	41PR-7875 2593		
23465	7590 12/10/2002				
JOHN S. BE	-	EXAMINER			
ONE METRO	ONG TEASDALE, LLP POLITAN SQUARE		KIM, PAUL D		
SUITE 2600 ST LOUIS, M	O 63102-2740		ART UNIT	PAPER NUMBER	
51 20015, III	J 05102 27.10		3729		
			DATE MAILED: 12/10/2002	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

					$\mathcal{I}\mathcal{N}$				
Office Action Summary		Application No.		Applicant(s)	- V				
		09/681,963		MCGILL ET AL.					
		Examiner		Art Unit					
		Paul D Kim		3729					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
THE N - Exter after: - If the - If NO - Failur - Any re	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or to treply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, howe y within the statutory min will apply and will expire to cause the application to	ever, may a reply be tim imum of thirty (30) days SIX (6) MONTHS from to become ABANDONED	ely filed will be considered timely the mailing date of this co (35 U.S.C. § 133).	<i>r.</i> ommunication.				
1)⊠	Responsive to communication(s) filed on 10 C	<u> October 2002</u> .							
2a)⊠	This action is FINAL . 2b) This action is non-final.								
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
	on of Claims								
	Claim(s) <u>1-31</u> is/are pending in the application.								
	4a) Of the above claim(s) <u>8-31</u> is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.								
	S)								
	Claim(s) is/are objected to.	r cleation require	mont						
	Claim(s) are subject to restriction and/or on Papers	r election requirer	nent.						
9)[] 7	The specification is objected to by the Examine	r.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11) 🔲 7	he proposed drawing correction filed on	_ is: a)∏ approve	d b) disappro	ved by the Examine	er.				
If approved, corrected drawings are required in reply to this Office action.									
12) The oath or declaration is objected to by the Examiner.									
Priority u	nder 35 U.S.C. §§ 119 and 120								
13)[Acknowledgment is made of a claim for foreign	priority under 35	U.S.C. § 119(a)	-(d) or (f).					
a) All b) Some * c) None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.									
Attachment		•	30	-					
2) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🗌	Interview Summary Notice of Informal Po Other:	(PTO-413) Paper No(a atent Application (PTC	s))-152)				

DETAILED ACTION

1. This office action is a response to the amendment filed on 10/10/2002.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Hirata (US PAT. 4,063,054).

Fig. 4a-4d of Hirata teaches a method for restricting travel of moving contact in a key switch comprising steps of: providing a spacer (13) and a biasing member (15); positioning the biasing member through the spacer; and installing the biasing member and the spacer in a contact carrier (21). In Fig. 4a and 4d, Hirata shows that the biasing member is located through the spacer after the spacer is pressed.

Re. Claim 2: Fig. 4d of Hirata '054 shows the spacer having a length substantial equal to the compressed biasing member length.

Re. Claim 3: Fig. 4a and 4d of Hirata '054 shows that the spacer engaging a moving contact (17) when the moving contact moves the safe travel distance (from a position of Fig. 4a to a position of Fig. 4d).

Re. Claim 4: Fig. 4a-4d of Hirata '054 shows that the biasing member engages to the moving contact.

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Re. Claim 6: Fig. 4a-4d of Hirata '054 shows that the spacer aligns substantially

parallel to a back of the moving contact.

Re. Claim 6: Fig. 4a-4d of Hirata '054 shows that the movement of the moving

contact is relative from a front wall (Fig. 4a) to a rear wall (Fig. 4d) of the contact carrier

and a centerline axis of the contact.

Response to Arguments

4. Applicant's arguments filed 10/10/2002 have been fully considered but they are

not persuasive. Applicant argues that the prior art of record fails to disclose the claimed

invention such as providing a spacer and a biasing member, positioning the biasing

member through the spacer and installing the biasing member and the spacer in the

contact carrier. Fig. 4a-4d of Hirata shows a spacer and a biasing member, which is

positioned through the spacer, and the biasing member and the spacer positioned in a

contact carrier. In Fig. 4a the biasing member is extruded from the spacer before the

spacer is pressed. However, in Fig. 4d the biasing member is positioned through the

spacer completely after the spacer is engaged with the moving contact (17) when the

moving contact moves the safe travel distance.

Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D Kim whose telephone number is 703-308-8356. The examiner can normally be reached on Tuesday-Friday between 7:00 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 703-308-1789. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-9835 for regular communications and 703-305-9835 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-5648.

pdk

December 6, 2002

PETER VO SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700